

Appl. No. 10/783,547
Amdt. dated January 18, 2006

Reply to Office Action of November 2, 2005
Attorney Docket 17546

AMENDMENT TO THE SPECIFICATION

Please replace paragraph [0092] with the following amended paragraph:

[0092] In the first stage, shown in FIGURE 4, controller 234 repeatedly calculates the motor/rotor speed ratio and the corresponding gear ratio of the gearbox fifty times in a row. Each time through it calculates which of the three gear ratios the gearbox is engaged in: first, second or third gear. It repeats this process at least twice, preferably fifty times. Controller 234 simultaneously calculates three sums that are stored in three variables: Counter[0], which indicates how many times controller 234 calculates first gear as the gear ratio; Counter[1], which indicates how many times controller 234 calculates second gear as the gear ratio; and Counter[2], which indicates how many times controller 234 calculates third gear as the gear ratio. In short, controller 234 sums the results of the gear ratio calculations, keeping a running count or sum for each of the three gear ratios it determines. The speed ratio is the ratio of the motor speed (an input to the gearbox) and the rotor speed (an output from the gearbox).